

CITY OF NEWARK

DIVISION OF TRAFFIC & SIGNALS

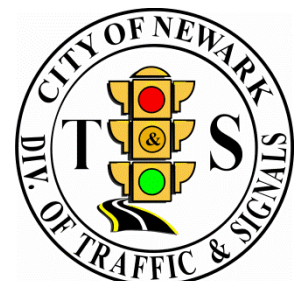
2015 ANNUAL REPORT



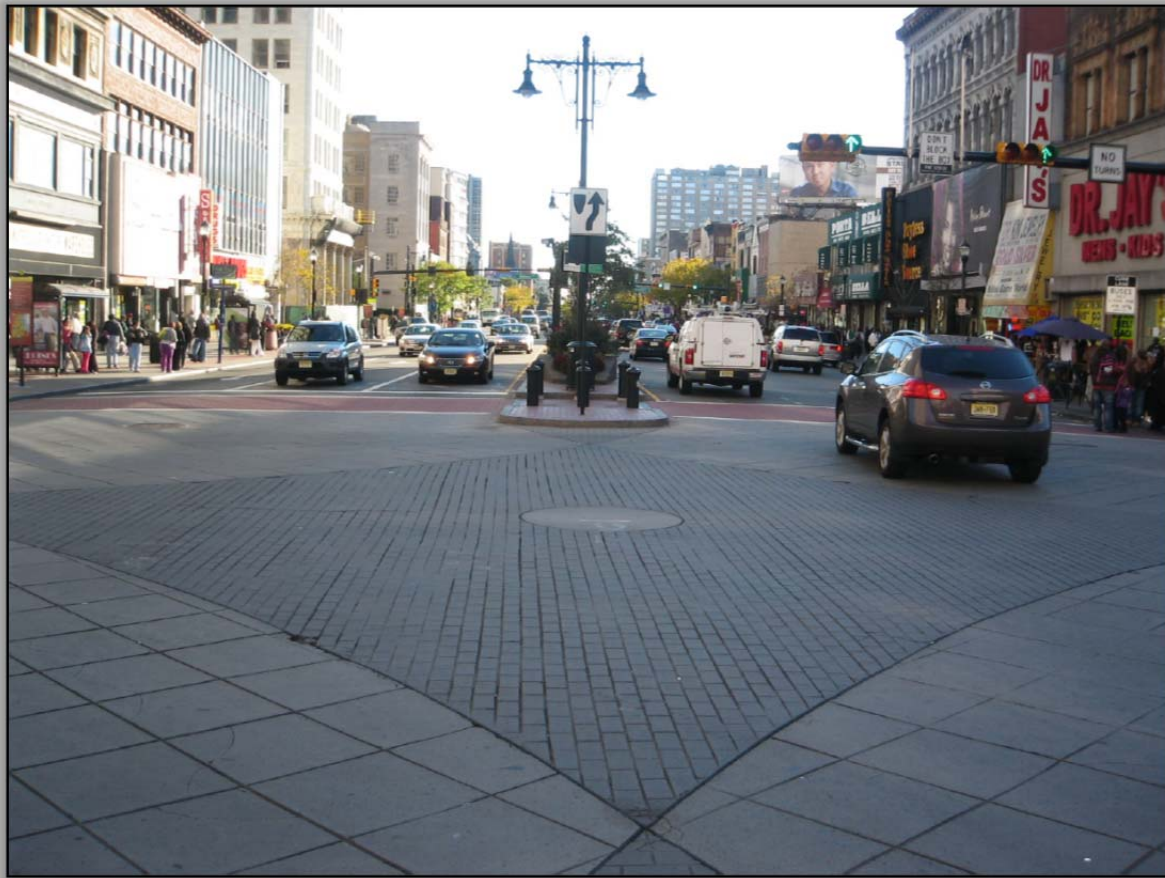
Phillip Scott, P.E., C.M.E.
Director
Department of Engineering



Jack M. Nata
Manager
Division of Traffic and Signals







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Mission Statement

The Division of Traffic and Signals provides comprehensive planning, construction and maintenance of the City's transportation infrastructure to ensure the safe and efficient movement of people and goods in the City of Newark.

Message from the Manager

This past year was another exciting year for the Division of Traffic and Signals. We saw new Streetscape Projects, the completion of the City's Pedestrian and Bicycle Safety Action Plan and several Traffic Calming Projects throughout our City.

I want to commend the entire Division of Traffic and Signals team for all their hard work in 2015. I am privileged to lead such a diligent and qualified team. Safety, integrity, responsiveness, quality and innovation make up the foundation of this Division.

In the last year we have also focused on the basics by filling 19,893 potholes, repaving 6 miles of roadway, responding to 830 traffic signal malfunctions and installing 2,315 traffic signs. We constructed 70 new speed humps and striped over 21 miles of roadway.

We will continue to work on achieving our main goal of providing safe streets for the residents of the City of Newark in 2016. I invite you to take a close look at our 2015 Annual Report that highlights all the work we have accomplished.

Sincerely,

A handwritten signature in black ink, appearing to read 'Jack M. Nata', with a stylized, flowing script.

Jack M. Nata
Manager
Division of Traffic and Signals

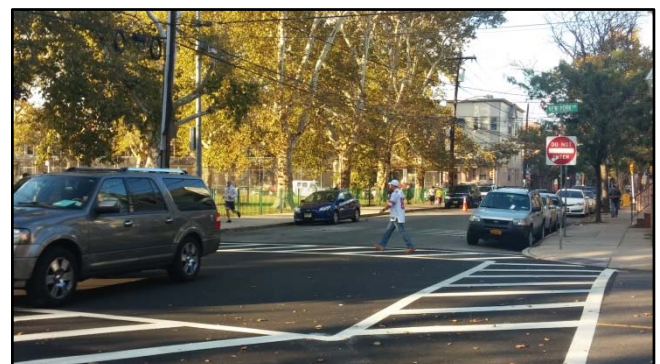
Pedestrian Safety Education Campaign



In October of 2015 the City of Newark once again participated in the “**STREETSMART**” Pedestrian Safety Education Campaign. The City was selected to participate in this vital pedestrian education campaign because it has been designated by the Federal Highway Administration (FHWA) as a Focus City for having a high number of pedestrian injuries and deaths. Between 2011 and 2014, there were more than 1,854 pedestrian crashes in Newark, claiming 35 lives and injuring 1,819 others. The education component of the campaign encourages every resident, employee and visitor to be street smart. That means whether you’re walking, driving or cycling, “check your vital signs”; obey speed limits and stop at stop signs, use crosswalks and walk and don’t walk signals.

Throughout the campaign the City partnered with local businesses, business improvement districts, NJPAC, the Prudential Center, Rutgers, NJIT, University Hospital, non-profit organizations and neighborhood associations.

Law enforcement was also involved; Essex County Sheriff's Department, NJIT Police and Rutgers Police collaborated to enforce pedestrian laws for the safety of all roadway users. They conducted details at hot spots that focused on motorists who fail to stop for pedestrians in the crosswalk and pedestrians who jaywalk. Police officers were also addressing speeding, illegal turns and distracted and inattentive driving and walking, which often contributes to pedestrian-motor vehicle crashes.



Grant Awards

In 2015 the following grants were awarded to the Division of Traffic and Signals:

- Street Resurfacing (Various Streets) - 2015 Municipal Aid (MA-2014)
Grant amount received: **\$1,341,640.00**
- Broad Street Pedestrian Safety Corridor Improvements
2016 & 2017 Local Safety Program - Grant amount received: **\$3,475,000.00**
- Ferry Street Pedestrian Safety Corridor Improvements
2016 & 2017 Local Safety Program - Grant amount received: **\$2,703,000.00**
- Newark Downtown Circulation Improvement Study
2016-2017 Unified Planning Work Program (UPWP) Subregional Studies Program
- Grant amount received: **\$280,000.00**
- Traffic Signal Optimization / Adaptive Traffic Signals along McCarter Highway
2015-2017 Regional/Local CMAQ Initiatives Program
- Grant amount received: **\$760,000.00**
- Newark Riverfront Pedestrian and Bicycle Access Project
2005 SAFETEA-LU(Federal) / NJDOT- Grant amount received: **\$4,700,000.00**
- Greenway Bike Route, Downtown Transit Connector
2015 Bikeway Program - Grant amount received: **\$332,000.00**
- City of Newark Ironbound District Bicycle Circulation Plan
NJDOT Local Bicycle/Pedestrian Planning Assistance Program – **Project funded and managed by NJDOT**
- Central Avenue Bridge Concept Development Phase Study
2016 NJTPA Local Capital Project Delivery Program, Concept Development Phase Study - Grant amount received: **\$302,400.00**

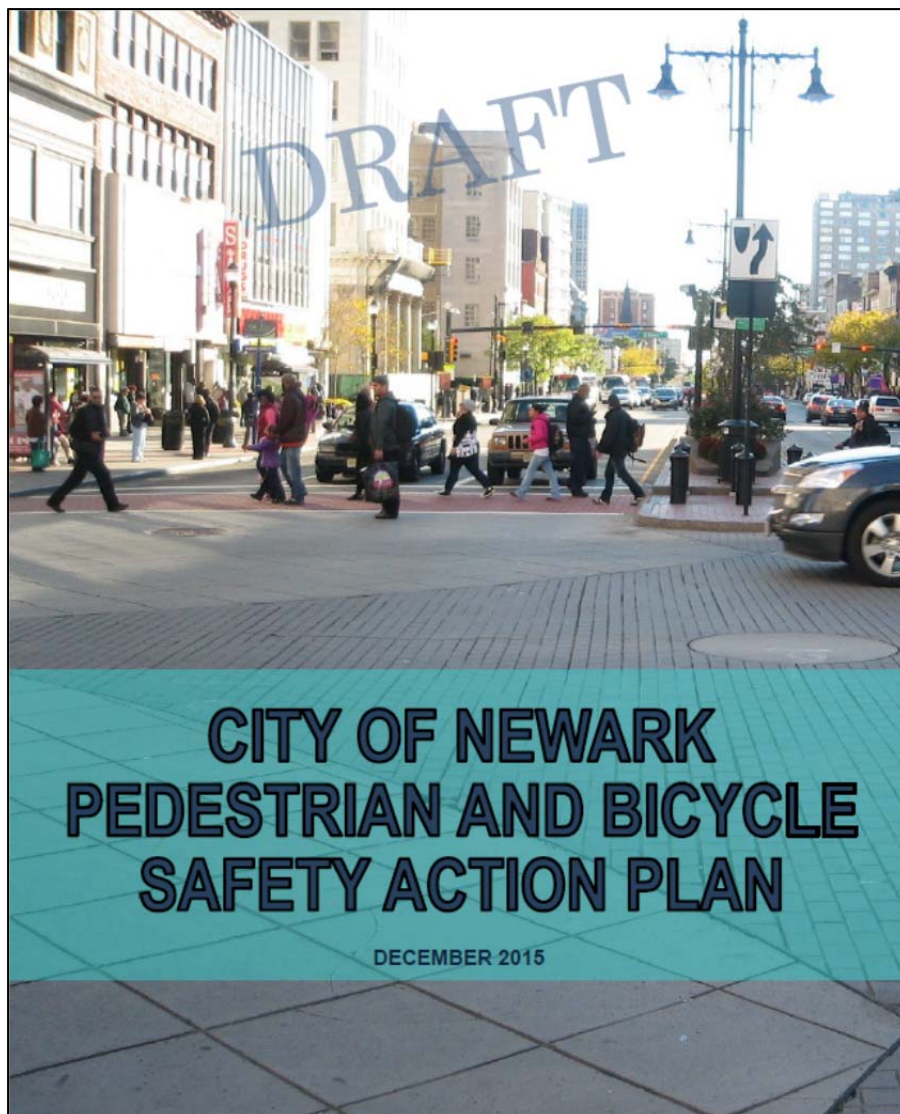
Planning Projects

In 2015 the following planning projects were under development:

- **Pedestrian and Bicycle Safety Action Plan**

The Pedestrian and Bicycle Safety Action Plan will identify hot spot intersections and corridors, identify what the safety issues are at these hot spots and develop the framework of how to address those safety issues. Along with creating a best practices tool box that can be used throughout the City, it will also propose policy and legislative changes to reduce pedestrian and bike crashes. This plan was developed with input from a steering committee and the community. The Pedestrian and Bicycle Safety Action Plan will be released in early 2016.

Project Cost: Project funded and managed by NJTPA



- **Ironbound District Bicycle Circulation Plan**

The **BIKEIRONBOUND** Plan presents a vision to create a comfortable, convenient, and safe environment in Newark's Ironbound neighborhood for cyclists of all ages and abilities, and puts forward a framework to advance this vision. The City of Newark has set a goal to increase bicycle ridership in the Ironbound and foster more widespread bicycle usage city-wide. In support of this effort, **BIKEIRONBOUND** provides a roadmap for improving bicycle circulation in the Ironbound by enhancing access and linkages throughout the neighborhood, improving connectivity to key destinations beyond the neighborhood's boundaries, while developing design guidelines that can be replicated throughout the City.

The **BIKEIRONBOUND** Plan is being developed as part of the New Jersey Department of Transportation's (NJDOT) Local Bicycle/Pedestrian Planning Assistance Program, which seeks to foster the development of non-motorized transportation modes in accordance with statewide goals and local needs.

The **BIKEIRONBOUND** plan establishes a framework for improving the bicycling environment in the Ironbound. The infrastructure improvements and bicycle network recommended in this plan are the result of extensive community outreach and technical analysis. These improvements will not only make the Ironbound a more attractive place to ride a bike, but will also improve the quality of life for residents and visitors by making the neighborhood more accessible for everyone.

Project Cost: Project funded and managed by NJDOT

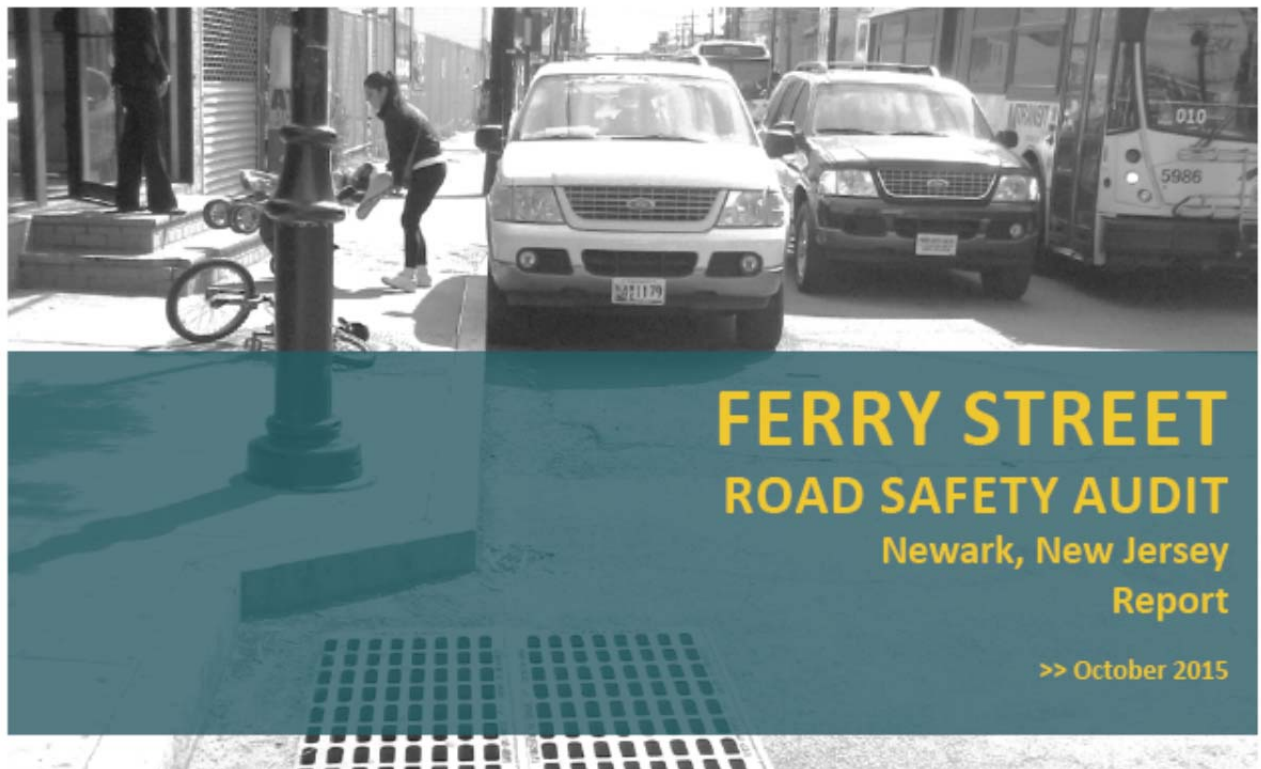


- **Road Safety Audit – Ferry St:**

The Center for Advanced Infrastructure and Transportation (CAIT) lent their safety expertise to the City of Newark in 2015 by conducting a Road Safety Audit on Ferry St between Merchant St and Lexington Ave. This corridor was chosen because it was identified in the 2015 network screenings as being Newark’s 4th highest-ranked mile-long pedestrian corridor. The study area is also the location of the city’s 10th highest-ranked pedestrian “spot”. This section of Ferry St between 2011 and 2013 had 90 vehicular accidents and 13 pedestrian/bicyclist related accidents.

The Road Safety Audit team conducted a full-day site visit. Representatives from the Division of Traffic and Signals, Rutgers University, the Newark Police Department, NJ Department of Transportation, North Jersey Transportation Planning Authority and the Ironbound Business Improvement District (IBID) participated. The site visit pinpointed safety issues that could be addressed with short-term and long-term countermeasures. The final report was released in October 2015 and it was used to apply for grant funds to implement the recommended safety measures.

Project Cost: Project funded and managed by Rutgers University, CAIT

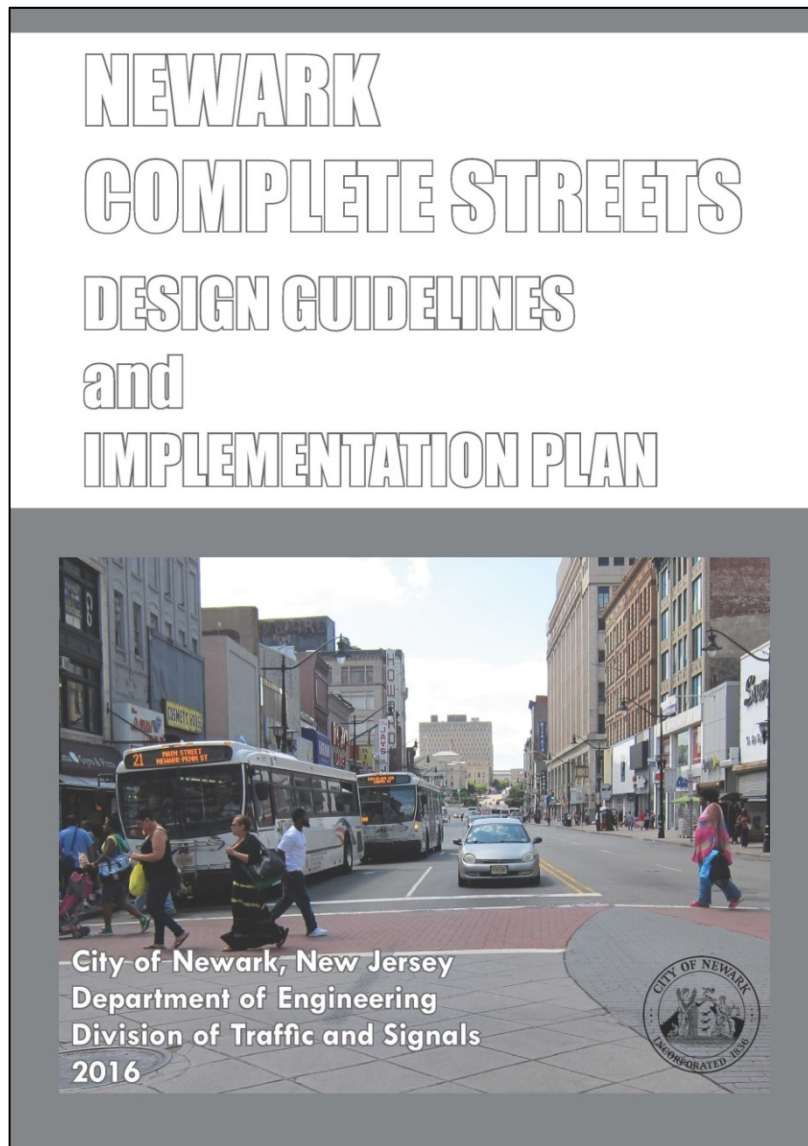


- **Complete Streets Design Guidelines and Implementation Plan**

The City of Newark is committed to creating street corridors and intersections that safely accommodate all users of all abilities, for this reason the City adopted a Complete Streets Policy in September of 2012.

In 2015 the Division of Traffic and Signals completed the development of the Complete Streets Design Guidelines and Implementation Plan. The plan builds upon the original Complete Streets Policy framework by outlining design standards and creating a Checklist of Pedestrian, Bike and Transit Accommodations. The checklist will ensure that pedestrians, bicyclists and transit users are considered during all stages of a project. The Complete Streets Design Guidelines and Implementation Plan will be released in early 2016.

**Project Cost: Project funded and managed by City of Newark,
Division of Traffic and Signals**



Design Projects

- **Delancy Street Roadway Improvements**

This is a federally funded project to design the reconstruction and widening of Delancy St between Avenue I and Avenue P. The design will include new drainage, utility relocations, widening and realignment of the roadway, new curb and sidewalks, signs, trees and traffic signal modifications. In 2014 the City of Newark received an additional grant award for this design project in the amount of \$201,515.00.

Project Cost: \$1,394,352.00

- **McClellan Street Underpass Drainage and Roadway Improvements**

This is a federally funded project to design the reconstruction of McClellan St Underpass. The design will include new drainage, utility relocations, lowering of the roadway to accommodate truck traffic with a vertical clearance of 14ft. 6in., and new curb and sidewalks.

Project Cost: \$1,091,849.92

Construction Projects

In 2015 the following projects were under construction:

- **South Ward Speed Hump Program:**

This project constructed 70 speed humps in 2015 and will construct another 10 speed humps in early 2016.

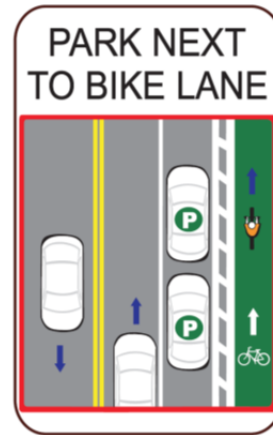
Project Cost: \$334,085.00



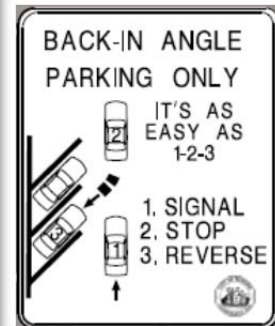
- **Lower Broadway and Mt. Prospect Ave Streetscape Projects:**

This project covered 1 mile of streetscape and traffic calming improvements. Work included new curb and sidewalks, ADA curb ramps, six new traffic signals, striping, corner bump outs, LED street lighting, new regulatory and warning signs, protected bike lanes, reverse angle parking, trees and street furniture. Work was completed in 2015.

Project Cost: \$5,685,600.54



Mt. Prospect Avenue between Heller Parkway and Tiffany Boulevard (Protected Bike Lanes)



Lower Broadway between Bloomfield Avenue and Broad Street (Reverse Angle Parking)

**Awards: NJ League of Municipalities 2015 Honorable Mention,
Innovation in Governance Award (Broadway)**

- **Annual Permanent Pothole Repair Contract:**

This project included the repair of streets with multiple potholes, utility cuts and depressions that required permanent pavement repairs. This work included 320 permanent pavement patches for a total of 100,000 square feet of new pavement.

Project Cost: \$695,000.00



- **Emergency Pothole Repair Contract – “Pothole Killer”:**

In 2015 due to the severe winter weather, an emergency contract was issued to Patch Management, Inc. to repair 5,550 potholes across our City using Spray Injection Patching. The “Pothole Killer” as it is known, only requires one operator who uses a joystick controlled nozzle to repair a pothole in 60 to 90 seconds, without ever leaving the driver’s seat.

Project Cost: \$200,000.00



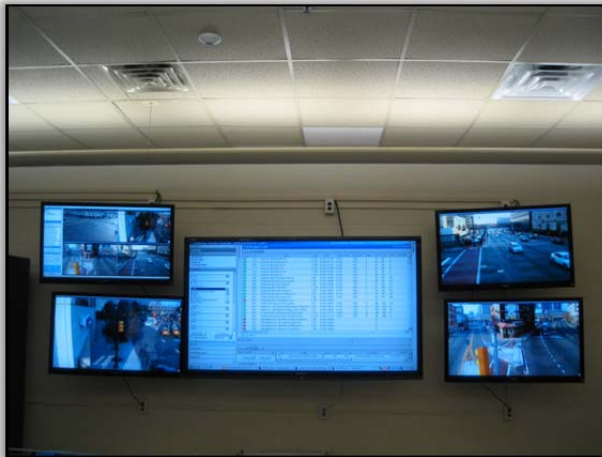
- **Annual Pavement Marking Contract:**

This project includes restriping 37 city miles of pavement markings. Work began in the fall of 2015 and will be completed in the spring of 2016.

Project Cost: \$224,900.00



- **Traffic Signal Control Center Upgrades:**



This project included the establishment of a remote Traffic Signal Control Center at the City's Emergency Operations Center(EOC), installing cellular communications at eight intersections, and upgrading these intersections with video detection. Work was completed in 2015.

Project Cost: \$100,000.00

In 2015 the following street resurfacing projects were under construction:

- **Contract No. 06-2013, Various Streets (12 Locations) – 2012 Project:**

This project covered 3.38 miles of street resurfacing, along with drainage improvements, ADA curb ramps, new striping and decorative imprinted crosswalks. Work began in 2014 and was completed in 2015.

Project Cost: \$2,042,858.61

WARD	STREET NAME	FROM	TO
Central	Dr. MLK Jr. Blvd	Warren St	Orange St
Central	Crawford St	M. L. King Blvd	Halsey St
East	Astor St	McCarter Hwy	Avenue "C"
East	Murray St	Avenue "C"	Broad St
North	Degraw Ave	Elwood Ave	Grafton Ave
North	No. 11th St	2nd Ave W	4th Ave W
South	Madison Ave	Tracey Ave	So. 12th St
South	Shanley Ave	Clinton Ave	Rose Terr
West	No. 11th St	4th Ave W	6th Ave W
West	So. 11th St (*)	Central Ave	Gould Ave

(*) Completed in the 2015

- **Contract No. 20-2013, Various Streets (7 Locations) – 2013 Project:**
This project covered 3.38 miles of street resurfacing, along with drainage improvements, ADA curb ramps, new striping and decorative imprinted crosswalks. Work began in 2014 and was completed in 2015.

Project Cost: \$1,629,600.18

WARD	STREET NAME	FROM	TO
Central	Prince St (*)	So. Orange Ave	W. Kinney St
Central	Quitman St (*)	Clinton Ave	W. Kinney St
East	Foundry St (*)	Ferry St	Raymond Blvd
East	Garden St (*)	NJ Railroad Ave	Pacific St
East	Somme St (*)	Raymond Blvd	Ferry St
East	Rutherford St	Delancy St	Avenue P
North	No. 10th St	1st Ave	2nd Ave
North	No. 7th St	3rd Ave	Bloomfield Ave
South	Madison Ave	Bergen St	Tracey Ave
West	6th Ave W (*)	1st St	E. Orange C. Line

(*) Completed in 2015

- **Contract No. 03-2014, Various Streets (10 Locations) – 2013 Project:**
This project covered 3.75 miles of street resurfacing, along with drainage improvements, ADA curb ramps, new striping and decorative imprinted crosswalks. Work completed in 2015.

Project Cost: \$1,896,490.35

WARD	STREET NAME	FROM	TO
Central	Norfolk St	Orange St	W. Market St
Central	Muhammed Ali Ave	Irvine Turner Blvd	Bergen St
East	McWhorter St	Ferry St	Walnut St
East	Vesey St	NJRR Ave	Pacific St
North	Lake St	Grafton Ave	Dead End
North	Grafton Ave	Branch Brook Park	Lake St
South	Madison Ave	South 12th St	South 18th St
South	Seymour Ave	Nye Ave	Renner Ave
West	South 11th St	Central Ave	14th Ave
West	Midland Pl	Mt. Vernon Pl	Irvington Ave

Mayor's Model Neighborhood Initiative

South and West Wards

The City of Newark's Model Neighborhood Initiative is a collaborative initiative by multiple City Departments, Community Groups, Organizations and residents to transform two neighborhoods in the South Ward and West Wards into model communities of prosperity. The Division of Traffic and Signals in 2015 worked on the following tasks related to the Model Neighborhood Initiative:

- **Permanent Pothole Patching:** During the month of December 2015 the City contractor performed 59,896 square feet of permanent pothole repairs.
 - South Ward: 160 Locations
 - West Ward: 86 Locations
- **Pothole Patching:** The "Pothole Killer" completed pothole repairs as of May 9, 2015. A total of 426 potholes were filled in the South and West Model Neighborhoods.
- **Street Lights:** New nighttime inspections of all street lights started on April 29, 2015 and a report of all street light outages was submitted to PSE&G.
 - South Ward: 19 Street Light Outages Reported
 - West Ward: 32 Street Light Outages Reported
- **South Ward Traffic Calming Program:** Installation of 10 new speed humps and new roadway markings along So. 14th St, So. 12th St, So. 10th St, Nairn Pl, Hedden Ter, Ingraham Pl, West Runyon St and Tillinghast St was completed in the fall of 2015 in the South Model Neighborhood.
- **Park Lighting – Mildred Helms Park:** A complete inventory and assessment of the park lighting within Mildred Helms Park was performed. The Division of Traffic and Signals signed a service agreement with PSE&G to upgrade the existing 50 lights to LED lights. Work was completed in early August 2015.



- **Graffiti – Mildred Helms Park:** The Division of Traffic and Signals cleaned graffiti from signs and other park amenities on July 31, 2015.

Before



After



- **Bus Shelters:** A new Bus Shelter was installed at Clinton Ave and So. 12th St in the South Model Neighborhood on December 8, 2015.



- **Banners:** Thirty five (35) MNI street pole banners were installed along Clinton Ave between Hunterdon St and Osborne Ter in the South Model Neighborhood. Work was completed on November 30, 2015.



Adopt-A-Median Program

The “Adopt-A-Median” program enables community organizations, neighborhoods, families, businesses, and schools to take over the maintenance and cleaning of street medians all across the City. Under the Adopt-A-Median program, organizations/groups can sign up to adopt a median for a minimum period of two years and conduct litter removal activities and/or landscape maintenance on the median. Any group, business, organization, family, even individuals can qualify and there is no cost to join this program.

In 2015 the following participated in the City’s Adopt-A-Median Program:

Ironbound Business Improvement District (IBID):

- **Wilson Ave and Stockton St**
- **Ferry St and Merchant St / Ferry St Sidewalk Planters**
- **Raymond Blvd/Market St between Prospect St and Madison St**
- **Ferry St and Mott St**

Covanta Essex:

- **Raymond Blvd and Lockwood St**

New Jersey Performing Arts Center (NJPAC):

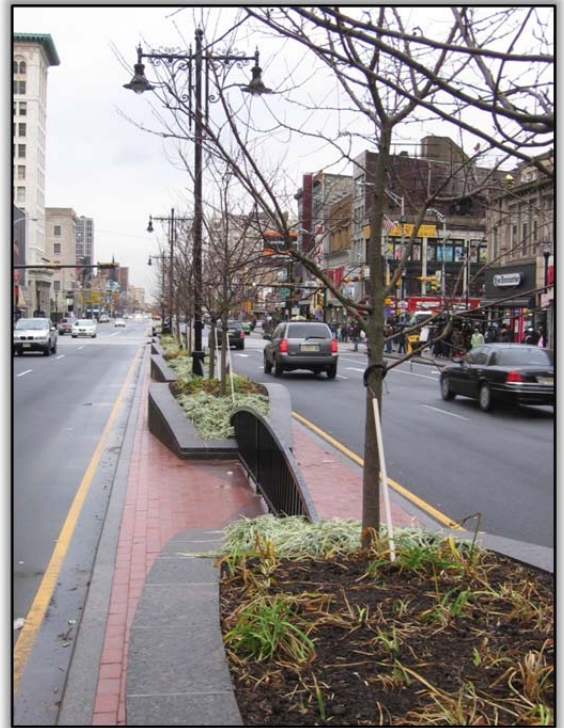
- **McCarter Hwy between Cherry St and Fulton St**

Newark Downtown District (NDD):

- **Broad St between Lafayette St and Cedar St**

Union Chapel Community Development Corp:

- **Fabyan Pl and Schley St**



Broad St Medians



Ferry St and Merchant St Median



Wilson Ave and Stockton St Medians

Revenue

Red Light Running Photo Enforcement Program (City):	\$627,063.08
Parking Permits (Handicap and Loading Zones)	\$57,400.00
Construction Permits:	\$581,200.00
Soil Erosion and Sediment Control Permits:	\$61,566.42
Bus Shelters Fees:	\$73,242.09
Telecommunication / Easements Fees:	\$227,085.00

Permits

Parking Permits:

• Number of handicap parking permits renewed:	1,175
• Number of new handicap parking permits issued:	155
• Number of loading zone permits renewed:	52
• Number of new loading zone permits issued:	6

Construction Permits:

• Number of street opening permits issued:	393
• Number of sidewalk opening permits issued:	148
• Number of street occupancy permits issued:	170
• Number of sidewalk occupancy permits issued:	58
• Number of sidewalk repair/replace permits issued:	152
• Number of driveway construction permits issued:	11
• Number of soil erosion and sediment control permits issued:	39

Maintenance Operations

Traffic Signal Maintenance Operations:

• Number of traffic signal knockdowns repaired:	37
• Number of traffic signal malfunctions repaired:	793

Traffic Sign Maintenance Operations:

• Number of traffic signs fabricated and installed:	2,315
• Number of traffic signs repaired:	1,681

Pavement Marking Maintenance Operations:

- Number of street miles restriped – yellow markings: 21
- Number of street miles restriped – white markings: 21

Pothole Maintenance Operations:

- Number of potholes repaired: 11,244
- Number of potholes repaired with “POTHOLE KILLER”: 5,550
- Number of pavement patches (Utility Cuts & Depressions) repaired: 2,779
- Number of permanent pavement patches repaired: 320
- Number of square feet of permanent pavement patches repaired: 100,000

Graphics Operations:

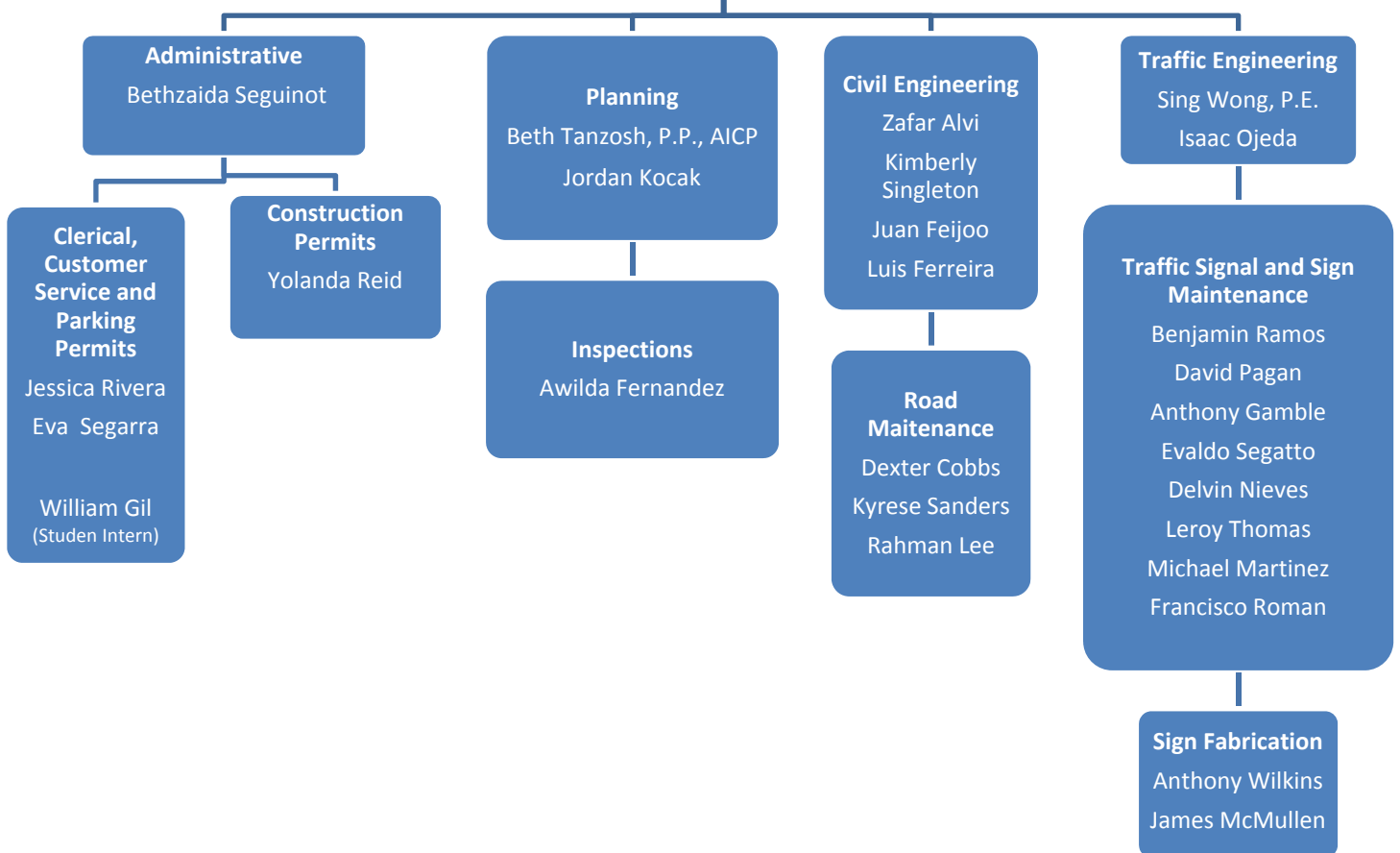
- Number of vehicle graphics installed: 9
- Number of office door lettering installed: 64
- Number of special events presentation boards(easels) fabricated: 300
- Number of special events banners fabricated: 242





Division of Traffic and Signals

Jack M. Nata
Manager





CITY OF NEWARK

RAS J. BARAKA, Mayor

MUNICIPAL COUNCIL

**MILDRED C. CRUMP, President
Council Member At-Large**

AUGUSTO AMADOR, Council Member, East Ward

CARLOS M. GONZALEZ, Council Member At-Large

JOHN SHARPE JAMES, Council Member, South Ward

GAYLE CHANEYFIELD JENKINS, Council Member, Central Ward

JOSEPH A. McCALLUM, JR., Council Member, West Ward

EDDIE OSBORNE, Council Member At-Large

LUIS A. QUINTANA, Council Member At-Large

ANIBAL RAMOS, JR., Council Member, North Ward

PHILLIP SCOTT, P.E., C.M.E., Director, Department of Engineering

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